COLLABORATION OF EDUCATION AND OUTREACH ACTIVITIES

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(SCLS, Strategic Programs for Innovative Research, MEXT)

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  - Research and Development
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What's SCLS?

- SCLS stands for

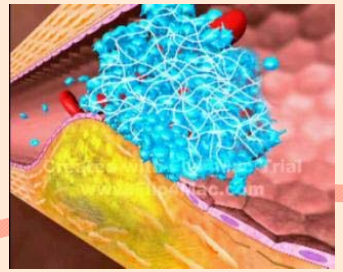
Supercomputational Life Science.

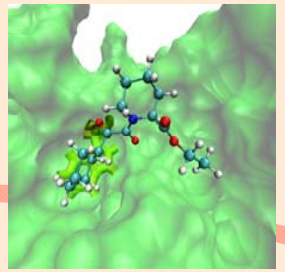
(We pronounce it "s-cluss".)

- Developing applied computational life sciences
- Collaborating with universities and research institutes

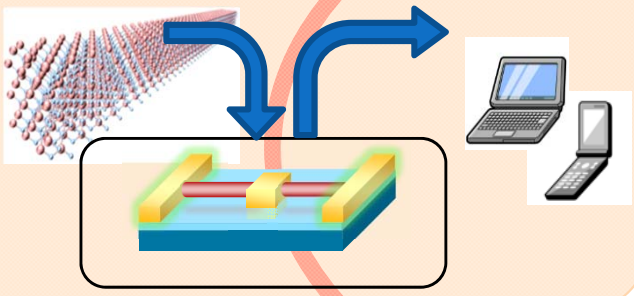
SPIRE (Strategic Programs for Innovative Research)

Life Science

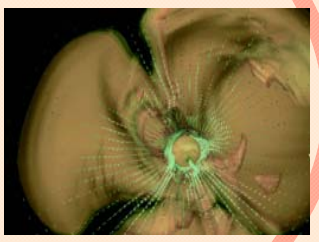




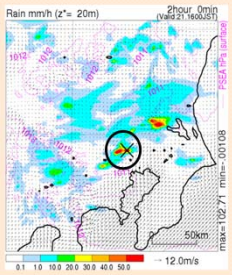
New Materials and Energy Creation

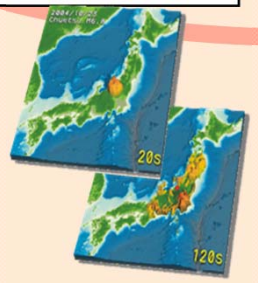


The origin of matter and the universe

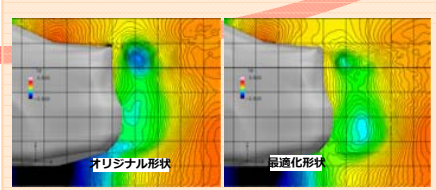


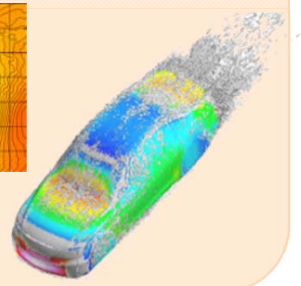
Global change prediction for disaster prevention/reduction





Industrial Innovations





From the Homepage of the Ministry of Education, Culture, Science & Technology in Japan

Mission

Four R&D Groups

High Performance Computing Development Group

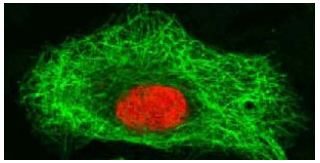
Planning and Coordination Group

Research and Development

Theme 1

Simulations of biomolecules under cellular environments

Yuji SUGITA, Group Leader RIKEN

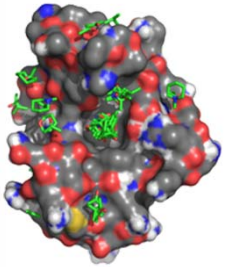


Theme 2

Simulation applicable to drug design

Hideaki FUJITANI, Group Leader

Research Center for Advanced Science and Technology, The University of Tokyo

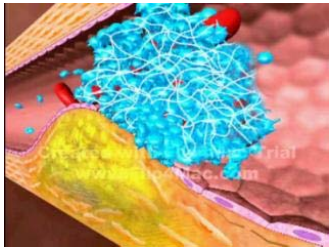


Theme 3

Hierarchical integrated simulation for predictive medicine

Shu TAKAGI, Group Leader

School of Engineering, The University of Tokyo

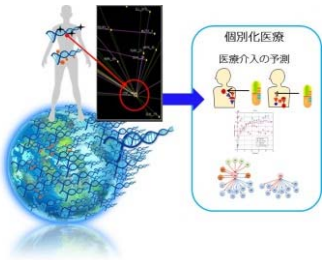


Theme 4

Large-scale analysis of life data

Satoru MIYANO, Group Leader

Institute of Medical Science, The University of Tokyo



SCLS
SUPERCOMPUTATIONAL LIFE SCIENCE

Support Groups

- **High Performance Computing Development Group**
  - Management of computational resources
  - K computer-use support

- **Planning and Coordination Group**
  - Human resource development
  - Establishment of human networks
  - Dissemination of research outcomes
  - Interdisciplinary projects

Publications

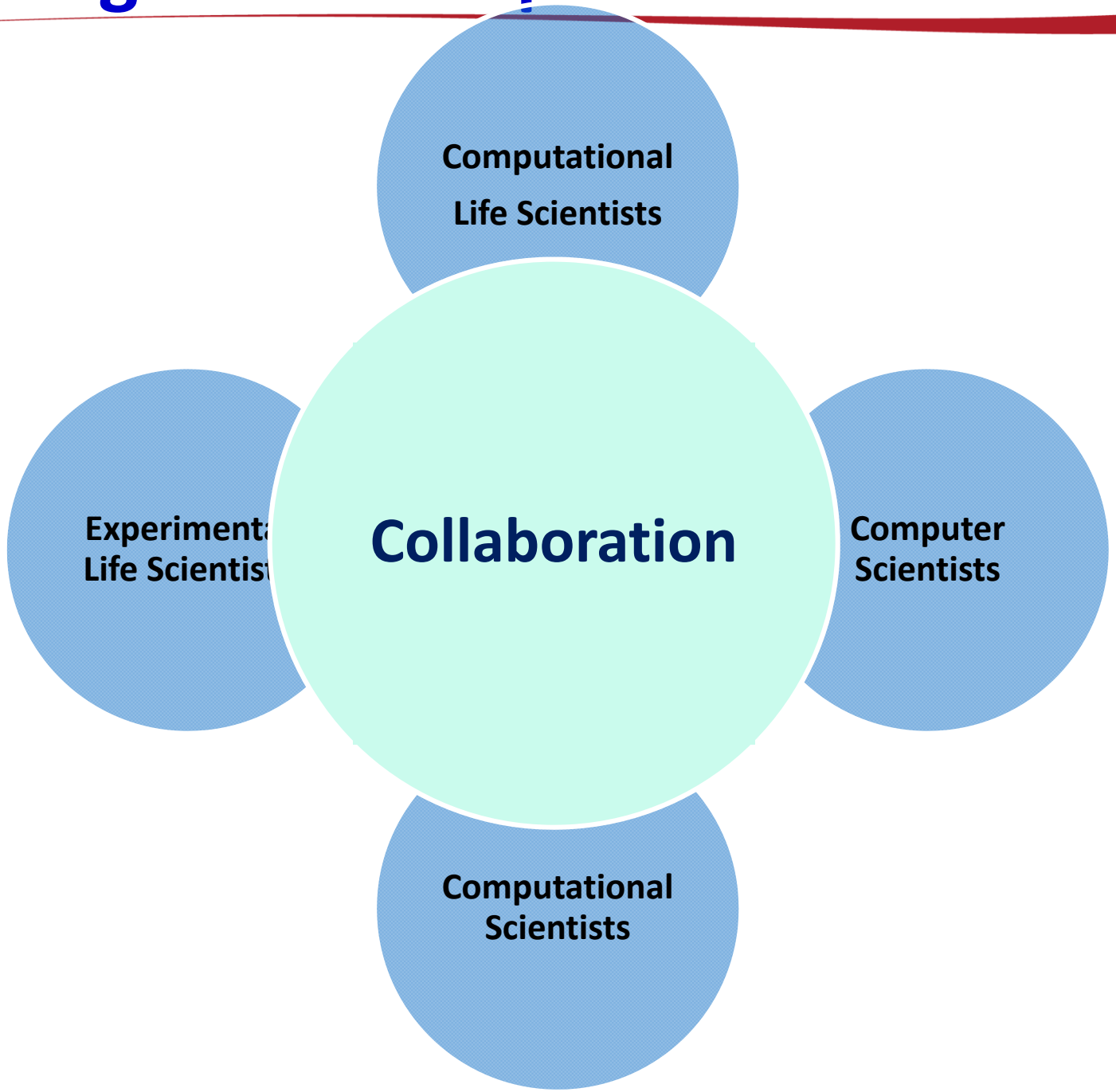

Educational Outreach for high school students

Enlivening computational life sciences

- **K computer has been shifting the balance toward Computational Life Science!**

This will allow us to uncover the design principles of living systems, and enhance the possibility of predicting and controlling these systems.

Enlivening future computational life sciences



Education and Outreach Activities

- Fostering a better understanding of computational life sciences

How can we provide information?
Ex) Successful experiences, international symposium, e-learning?